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IN THE CLAIMS:

Please amend claims 1 and 9 as follows.

- 1. (Currently Amended) A process for the preparation of biodiesel, having a Cetane number in the range of 45-67 and total nitrogen content in the range of 0.03 – 0.033% comprising:
- i) heating an oil having a by specific gravity in the range of 0.85-0.96 and an iodine value not exceeding 208, to a temperature not exceeding 120°C for not less than 2 hours;
- ii) transesterifying the oil with 8 to 42% w/w of alcohol of general formula R-OH, where R represents (C_nH_{2n+1}), wherein n is an integer from 1 and to 5, in presence of not more than 0.55% w/w, of a catalyst, at a temperature higher than the boiling point of the alcohol but not exceeding 215°C for a period of not less than 30 minutes under continuous turbulent conditions to obtain a mixture of ester and glycerol,
- iii) separating the esterified oil from the mixture for a period of not less than 4 hours;
- iv) purifying the mixture for a period of not less than 8 hours, wherein the purification step involves bubble washing; and
- v) repeating steps iii) and iv) in succession for not less than three times to obtain a biodiesel having a Cetane number in the range of 45-67 and total nitrogen content in the range of 0.03 0.033%.
- 2. (Previously Presented) The process of claim 1, wherein the oil is selected from the group consisting of ricebran oil, cottonseed oil, soybean oil, sunflower oil, castor oil, and coconut oil.

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- 3. (Previously Presented) The process of claim 1, wherein the alcohol is selected from the group consisting of methanol, ethanol, n-propanol, n-butanol, and n-pentanol.
- 4. (Previously Presented) The process of claim 1, wherein the catalyst is sodium hydroxideor potassium hydroxide.
- 5. (Previously Presented) The process of claim 1, wherein the separation step involves decanting, centrifuging, gravity separation, settling, or a combination thereof.
- 6. (Previously Presented) The process of claim 1, wherein the purification step additionally involves centrifuging, or a combination thereof.
- 7. (Previously Presented) The process of claim 1 wherein the continuous turbulent conditions are maintained at a Reynolds number (NRe) ranging from 4000 to 10,000.
- 8. (Previously Presented) The process of claim 1, wherein the bubble washing involves bubbles having a bubble size ranging from 1-3 mm.
- 9. (Currently Amended) The process of claim 6, wherein the filter pore size of the filter in the micro filtration is not less than 5 micron.